District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

| | |
|---|---|
| Incident ID | NOY1704650251 |
| District RP | 1RP-4607 |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party EOG Resources, Inc. | OGRID 7377 |
| Contact Name Chase Settle | Contact Telephone 575-748-1471 |
| Contact email Chase_Settle@eogresources.com | Incident # *(assigned by OCD)* NOY1704650251 |
| Contact mailing address 104 S. 4th Street, Artesia, NM 88210 | |

## Location of Release Source

Latitude 32.57850 Longitude -103.61315
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Cola ADO State Com #2 | Site Type Battery |
| Date Release Discovered 01/18/2017 | API# *30-005-21064* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| E | 31 | 8S | 33E | Chaves |

Surface Owner: [X] State [ ] Federal [ ] Tribal [ ] Private (*Name:* _____)

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|---|---|
| [X] Crude Oil | Volume Released (bbls) 5 | Volume Recovered (bbls) 3 |
| [X] Produced Water | Volume Released (bbls) 10 | Volume Recovered (bbls) 7 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | [X] Yes [ ] No |
| [ ] Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| [ ] Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| [ ] Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

| | |
|---|---|
| Cause of Release | Please refer to the attached original C-141 form for 1RP-4607 for cause of release and immediate action steps. EOG Resources is submitting for closure via the new form to formally close out this incident. All sampling and correspondence is also attached. |

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NOY1704650251 |
| District RP | 1RP-4607 |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☐ Yes ☑ No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

☑ The source of the release has been stopped.
☑ The impacted area has been secured to protect human health and the environment.
☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☑ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Chase Settle
Title: Rep Safety & Environmental Sr

Signature: Chase Settle
Date: 09/20/2021

email: Chase_Settle@eogresources.com
Telephone: 575-748-1471

**OCD Only**

Received by: _____
Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NOY1704650251 |
| District RP | |
| Facility ID | |
| Application ID | |

# Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | _____ (ft bgs) |
| Did this release impact groundwater or surface water? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☐ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☐ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☐ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ☐ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☐ No |
| Did the release impact areas **not** on an exploration, development, production, or storage site? | ☐ Yes ☐ No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist**: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NOY1704650251 |
| District RP | |
| Facility ID | |
| Application ID | |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NOY1704650251 |
| District RP | |
| Facility ID | |
| Application ID | |

# Remediation Plan

**Remediation Plan Checklist**: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only**: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NOY1704650251 |
| District RP | 1RP-4607 |
| Facility ID | |
| Application ID | |

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** ***Each of the following items must be included in the closure report.***

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chase Settle  Title: Rep Safety & Environmental Sr

Signature: Chase Settle  Date: 09/20/2021

email: Chase_Settle@eogresources.com  Telephone: 575-748-1471

**OCD Only**

Received by: _____  Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Bradford Billings  Date: 09/21/2021

Printed Name: Bradford Billings  Title: Envi.Spec.A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

# Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

| Name of Company | OGRID Number | Contact |
|---|---|---|
| EOG Y Resources, Inc. | 25575 | Robert Asher |
| Address | | Telephone No. |
| 104 S. 4th Street | | 575-748-1471 |
| Facility Name | | Facility Type |
| Cola ADO State Com #2 | | Battery |

| Surface Owner | Mineral Owner | API No. |
|---|---|---|
| State | State | 30-005-21064 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| E | 31 | 8S | 33E | 1880 | North | 760 | West | Chaves |

**Latitude** 32.57850 **Longitude** 103.61315

## NATURE OF RELEASE

| Type of Release | Volume of Release | Volume Recovered |
|---|---|---|
| Oil & Produced Water | 5 B/O & 10 B/PW | 3 B/O & 7 B/PW |
| Source of Release | Date and Hour of Occurrence | Date and Hour of Discovery |
| Flow line valve | 1/18/2017; PM | 1/18/2017; PM |
| Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required | If YES, To Whom? N/A | |
| By Whom? N/A | Date and Hour N/A | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully. *

Describe Cause of Problem and Remedial Action Taken. *
Flow line valve failed, causing the release. Vacuum truck(s) and roustabout crews were called.

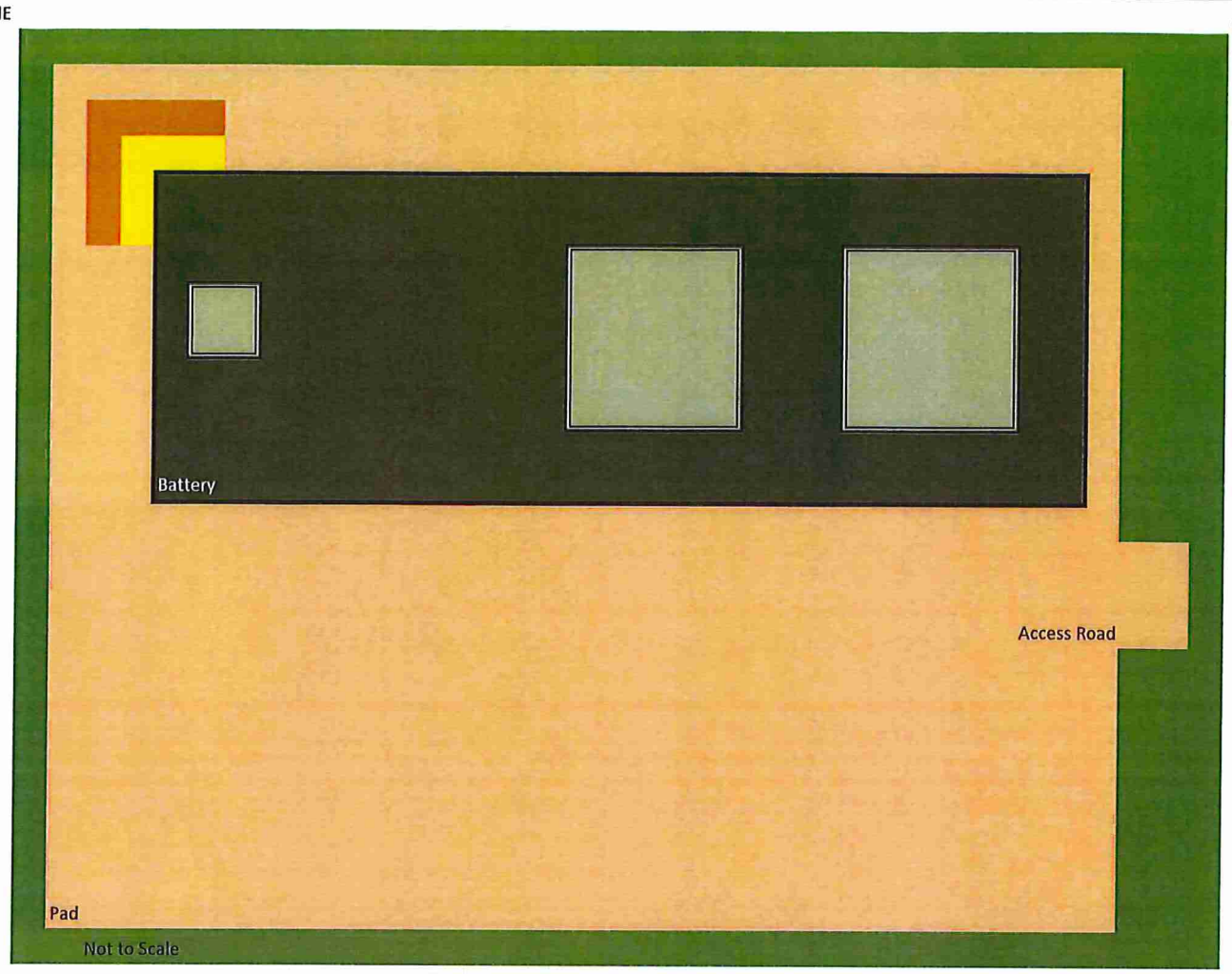
Describe Area Affected and Cleanup Action Taken. *
An approximate area of 15'X 30'. The well and valves were closed. Vacuum truck recovered remaining oil and produced water. The impacted soils were excavated and hauled to an NMOCD approved facility. Vertical and horizontal delineation samples will be collected and analysis ran for TPH & BTEX (chlorides for documentation). **Depth to Ground Water: >100' (approximately 220', per ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on the volumes recovered, impacted soils excavated/removed and enclosed analytical data, EOG Y Resources requests closure.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| Signature: | OIL CONSERVATION DIVISION | |
|---|---|---|
| Printed Name: Robert Asher | Approved by Environmental Specialist: | |
| Title: Environmental Supervisor | Approval Date: | Expiration Date: |
| E-mail Address: Robert_Asher@eogresources.com | Conditions of Approval: | Attached ☐ |
| Date: May 2, 2017 Phone: 575-748-4217 | **1RP-4607** | |

* Attach Additional Sheets If Necessary

EOG Resources, Inc. Cola ADO State Com #2




| Analytical Report-1704493 (Hall) | Sample Area | Sample Date | Sample Type | Depth | BTEX | GRO | DRO | Chlorides |
|---|---|---|---|---|---|---|---|---|
| RA 0.5 | Release/Excavation Area | 4/10/2017 | Grab/Auger | 6" (18" BSL) | ND | ND | 360 | 620 |
| RA 1.0 | Release/Excavation Area | 4/10/2017 | Grab/Auger | 12" (24" BSL) | ND | ND | 48 | 290 |
| RAD 0.5 | Release/Excavation Area Boundry | 4/10/2017 | Grab/Auger | 6" | ND | ND | ND | 170 |

**Site Ranking is Zero (0).** Depth to Ground Water >100' (approx. 220', per ChevronTexaco Trend Map).

All results are ppm. BSL - Below Surface Level

Released: 5 B/O &10 B/PW; Recovered: 3 B/O & 7 B/PW. Release Date: 1/18/2017

NW SW

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

April 17, 2017

Robert Asher
EOG
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Cola ADO State Com 2 OrderNo.: 1704493

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/12/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Cola ADO State Com 2
**Lab Order:** 1704493

**Lab ID:** 1704493-001 **Collection Date:** 4/10/2017 10:37:00 AM
**Client Sample ID:** RA 0.5 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | | Analyst: LGT |
| Chloride | 620 | 30 | | mg/Kg | 20 | 4/14/2017 1:48:28 PM | 31249 |

**Lab ID:** 1704493-002 **Collection Date:** 4/10/2017 10:52:00 AM
**Client Sample ID:** RA 1.0 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | | Analyst: LGT |
| Chloride | 290 | 30 | | mg/Kg | 20 | 4/14/2017 3:15:21 PM | 31249 |

**Lab ID:** 1704493-003 **Collection Date:** 4/10/2017 11:08:00 AM
**Client Sample ID:** RAD 0.5 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | | Analyst: LGT |
| Chloride | 170 | 30 | | mg/Kg | 20 | 4/14/2017 3:27:45 PM | 31249 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1704493

*17-Apr-17*

**Client:** EOG

**Project:** Cola ADO State Com 2

| Sample ID | MB-31249 | SampType: | MBLK | | TestCode: | EPA Method 300.0: Anions | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | PBS | Batch ID: | 31249 | | RunNo: | 42127 | | | | |
| Prep Date: | 4/14/2017 | Analysis Date: | 4/14/2017 | | SeqNo: | 1323689 | Units: | mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | LCS-31249 | SampType: | LCS | | TestCode: | EPA Method 300.0: Anions | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | LCSS | Batch ID: | 31249 | | RunNo: | 42127 | | | | |
| Prep Date: | 4/14/2017 | Analysis Date: | 4/14/2017 | | SeqNo: | 1323690 | Units: | mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 97.8 | 90 | 110 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG/Yates | Work Order Number: 1704493 | RcptNo: 1

Received By: Andy Jansson 4/12/2017 10:10:00 AM

Completed By: Ashley Gallegos 4/12/2017 11:52:59 AM

Reviewed By: ENM 04/12/17

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| 2. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 3. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 4. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 5. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 6. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 7. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 8. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 9. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 10. VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA Vials ☑ |
| 11. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 13. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 14. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

## Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 1.0 | Good | Yes | | | |

# Chain-of-Custody Record

Client: EOG Resources, Inc.

Mailing Address: 104 S. Fourth Street, Artesia, NM 88210

Phone #: 575-748-4217

email: Robert_Asher@eogresources.com

QA/QC Package: X Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other ☐ EDD (Type)

Turn Around Time: X Standard ☐ Rush

Project Name: Cola ADO State Com #2

Project #: 30-005-21064

Project Manager: Robert Asher

Sampler: Same

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1704493 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions ($F,Cl,NO_3,NO_2,PO_4,SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | | | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/10/2017 | 10:37 AM | Soil | RA 0.5 | 1 - 4oz. | Ice | -001 | X | | X | | | | | X | | | | | | | |
| 4/10/2017 | 10:52 AM | Soil | RA 1.0 | 1 - 4oz. | Ice | -002 | X | | X | | | | | X | | | | | | | |
| 4/10/2017 | 11:08 AM | Soil | RAD 0.5 | 1 - 4oz. | Ice | -003 | X | | X | | | | | X | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| 4/11/2017 | 7:42 AM | | | | |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |
| | | | | 04/12/17 | 1010 |

Remarks: Please put chloride results on separate report. Analytical Results by 4/19/2017.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

April 17, 2017

Robert Asher
EOG
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Cola ADO State Com 2 OrderNo.: 1704493

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/12/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** RA 0.5
**Project:** Cola ADO State Com 2
**Collection Date:** 4/10/2017 10:37:00 AM
**Lab ID:** 1704493-001
**Matrix:** SOIL
**Received Date:** 4/12/2017 10:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **MAB** | |
| Diesel Range Organics (DRO) | 360 | 10 | | mg/Kg | 1 | 4/14/2017 10:26:25 AM | 31224 |
| Surr: DNOP | 92.9 | 70-130 | | %Rec | 1 | 4/14/2017 10:26:25 AM | 31224 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 4/13/2017 9:32:15 PM | 31215 |
| Surr: BFB | 91.4 | 54-150 | | %Rec | 1 | 4/13/2017 9:32:15 PM | 31215 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Methyl tert-butyl ether (MTBE) | ND | 0.093 | | mg/Kg | 1 | 4/13/2017 9:32:15 PM | 31215 |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 4/13/2017 9:32:15 PM | 31215 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 4/13/2017 9:32:15 PM | 31215 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 4/13/2017 9:32:15 PM | 31215 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 4/13/2017 9:32:15 PM | 31215 |
| Surr: 4-Bromofluorobenzene | 109 | 66.6-132 | | %Rec | 1 | 4/13/2017 9:32:15 PM | 31215 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** RA 1.0
**Project:** Cola ADO State Com 2
**Collection Date:** 4/10/2017 10:52:00 AM
**Lab ID:** 1704493-002
**Matrix:** SOIL
**Received Date:** 4/12/2017 10:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **MAB** | |
| Diesel Range Organics (DRO) | 48 | 9.5 | | mg/Kg | 1 | 4/14/2017 12:18:16 PM | 31224 |
| Surr: DNOP | 88.9 | 70-130 | | %Rec | 1 | 4/14/2017 12:18:16 PM | 31224 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 4/13/2017 9:55:38 PM | 31215 |
| Surr: BFB | 90.8 | 54-150 | | %Rec | 1 | 4/13/2017 9:55:38 PM | 31215 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Methyl tert-butyl ether (MTBE) | ND | 0.094 | | mg/Kg | 1 | 4/13/2017 9:55:38 PM | 31215 |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 4/13/2017 9:55:38 PM | 31215 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 4/13/2017 9:55:38 PM | 31215 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 4/13/2017 9:55:38 PM | 31215 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 4/13/2017 9:55:38 PM | 31215 |
| Surr: 4-Bromofluorobenzene | 110 | 66.6-132 | | %Rec | 1 | 4/13/2017 9:55:38 PM | 31215 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** RAD 0.5
**Project:** Cola ADO State Com 2
**Collection Date:** 4/10/2017 11:08:00 AM
**Lab ID:** 1704493-003
**Matrix:** SOIL
**Received Date:** 4/12/2017 10:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **MAB** | |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 4/14/2017 12:46:20 PM | 31224 |
| Surr: DNOP | 75.8 | 70-130 | | %Rec | 1 | 4/14/2017 12:46:20 PM | 31224 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 4/13/2017 10:19:01 PM | 31215 |
| Surr: BFB | 91.1 | 54-150 | | %Rec | 1 | 4/13/2017 10:19:01 PM | 31215 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Methyl tert-butyl ether (MTBE) | ND | 0.093 | | mg/Kg | 1 | 4/13/2017 10:19:01 PM | 31215 |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 4/13/2017 10:19:01 PM | 31215 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 4/13/2017 10:19:01 PM | 31215 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 4/13/2017 10:19:01 PM | 31215 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 4/13/2017 10:19:01 PM | 31215 |
| Surr: 4-Bromofluorobenzene | 109 | 66.6-132 | | %Rec | 1 | 4/13/2017 10:19:01 PM | 31215 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1704493

*17-Apr-17*

**Client:** EOG

**Project:** Cola ADO State Com 2

| Sample ID | MB-31224 | SampType: | MBLK | | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | PBS | Batch ID: | 31224 | | RunNo: | 42116 | | | | |
| Prep Date: | 4/13/2017 | Analysis Date: | 4/14/2017 | | SeqNo: | 1322866 | Units: | mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Surr: DNOP | 8.4 | | 10.00 | | 84.3 | 70 | 130 | | | |

| Sample ID | LCS-31224 | SampType: | LCS | | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | LCSS | Batch ID: | 31224 | | RunNo: | 42116 | | | | |
| Prep Date: | 4/13/2017 | Analysis Date: | 4/14/2017 | | SeqNo: | 1322869 | Units: | mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42 | 10 | 50.00 | 0 | 83.7 | 63.8 | 116 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 85.5 | 70 | 130 | | | |

| Sample ID | MB-31231 | SampType: | MBLK | | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | PBS | Batch ID: | 31231 | | RunNo: | 42111 | | | | |
| Prep Date: | 4/13/2017 | Analysis Date: | 4/14/2017 | | SeqNo: | 1323371 | Units: | %Rec | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 11 | | 10.00 | | 107 | 70 | 130 | | | |

| Sample ID | LCS-31231 | SampType: | LCS | | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | LCSS | Batch ID: | 31231 | | RunNo: | 42111 | | | | |
| Prep Date: | 4/13/2017 | Analysis Date: | 4/14/2017 | | SeqNo: | 1323398 | Units: | %Rec | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 5.0 | | 5.000 | | 99.7 | 70 | 130 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1704493

*17-Apr-17*

**Client:** EOG

**Project:** Cola ADO State Com 2

| Sample ID | MB-31207 | SampType: | MBLK | | TestCode: | EPA Method 8015D: Gasoline Range | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | PBS | Batch ID: | 31207 | | RunNo: | 42108 | | | | |
| Prep Date: | 4/12/2017 | Analysis Date: | 4/13/2017 | | SeqNo: | 1322584 | Units: | %Rec | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 890 | | 1000 | | 89.2 | 54 | 150 | | | |

| Sample ID | LCS-31207 | SampType: | LCS | | TestCode: | EPA Method 8015D: Gasoline Range | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | LCSS | Batch ID: | 31207 | | RunNo: | 42108 | | | | |
| Prep Date: | 4/12/2017 | Analysis Date: | 4/13/2017 | | SeqNo: | 1322585 | Units: | %Rec | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 990 | | 1000 | | 98.8 | 54 | 150 | | | |

| Sample ID | MB-31215 | SampType: | MBLK | | TestCode: | EPA Method 8015D: Gasoline Range | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | PBS | Batch ID: | 31215 | | RunNo: | 42108 | | | | |
| Prep Date: | 4/12/2017 | Analysis Date: | 4/13/2017 | | SeqNo: | 1322604 | Units: | mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 910 | | 1000 | | 91.0 | 54 | 150 | | | |

| Sample ID | LCS-31215 | SampType: | LCS | | TestCode: | EPA Method 8015D: Gasoline Range | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | LCSS | Batch ID: | 31215 | | RunNo: | 42108 | | | | |
| Prep Date: | 4/12/2017 | Analysis Date: | 4/13/2017 | | SeqNo: | 1322610 | Units: | mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27 | 5.0 | 25.00 | 0 | 106 | 76.4 | 125 | | | |
| Surr: BFB | 990 | | 1000 | | 99.2 | 54 | 150 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1704493

*17-Apr-17*

**Client:** EOG

**Project:** Cola ADO State Com 2

| Sample ID MB-31207 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles |
|---|---|---|
| Client ID: PBS | Batch ID: 31207 | RunNo: 42108 |
| Prep Date: 4/12/2017 | Analysis Date: 4/13/2017 | SeqNo: 1322634 Units: %Rec |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 66.6 | 132 | | | |

| Sample ID LCS-31207 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles |
|---|---|---|
| Client ID: LCSS | Batch ID: 31207 | RunNo: 42108 |
| Prep Date: 4/12/2017 | Analysis Date: 4/13/2017 | SeqNo: 1322635 Units: %Rec |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 115 | 66.6 | 132 | | | |

| Sample ID MB-31215 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles |
|---|---|---|
| Client ID: PBS | Batch ID: 31215 | RunNo: 42108 |
| Prep Date: 4/12/2017 | Analysis Date: 4/13/2017 | SeqNo: 1322652 Units: mg/Kg |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether (MTBE) | ND | 0.10 | | | | | | | | |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 115 | 66.6 | 132 | | | |

| Sample ID LCS-31215 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles |
|---|---|---|
| Client ID: LCSS | Batch ID: 31215 | RunNo: 42108 |
| Prep Date: 4/12/2017 | Analysis Date: 4/13/2017 | SeqNo: 1322653 Units: mg/Kg |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether (MTBE) | 1.0 | 0.10 | 1.000 | 0 | 104 | 66.5 | 120 | | | |
| Benzene | 1.1 | 0.025 | 1.000 | 0 | 113 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 103 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 92.9 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 114 | 66.6 | 132 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG/Yates | Work Order Number: 1704493 | RcptNo: 1

Received By: Andy Jansson 4/12/2017 10:10:00 AM

Completed By: Ashley Gallegos 4/12/2017 11:52:59 AM

Reviewed By: ENM 04/12/17

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| 2. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 3. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 4. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 5. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 6. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 7. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 8. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 9. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 10. VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA Vials ☑ |
| 11. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 13. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 14. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

## Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 1.0 | Good | Yes | | | |

# Chain-of-Custody Record

| | |
|---|---|
| Client: EOG Resources, Inc. | Turn Around Time: X Standard ☐ Rush |
| | Project Name: Cola ADO State Com #2 |
| Mailing Address: 104 S. Fourth Street, Artesia, NM 88210 | Project #: 30-005-21064 |
| Phone #: 575-748-4217 | |
| email: Robert_Asher@eogresources.com | Project Manager: Robert Asher |
| QA/QC Package: X Standard ☐ Level 4 (Full Validation) | |
| Accreditation: ☐ NELAP ☐ Other ☐ EDD (Type) | Sampler: Same<br>On Ice: ☑ Yes ☐ No<br>Sample Temperature: 1.0°C |

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1704493 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions ($F,Cl,NO_3,NO_2,PO_4,SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | | | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/10/2017 | 10:37 AM | Soil | RA 0.5 | 1 - 4oz. | Ice | -001 | X | | X | | | | | X | | | | | | | |
| 4/10/2017 | 10:52 AM | Soil | RA 1.0 | 1 - 4oz. | Ice | -002 | X | | X | | | | | X | | | | | | | |
| 4/10/2017 | 11:08 AM | Soil | RAD 0.5 | 1 - 4oz. | Ice | -003 | X | | X | | | | | X | | | | | | | |

| Date | Time | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| 4/11/2017 | 7:42 AM | | | 04/12/17 | 1016 |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |

**Remarks: Please put chloride results on separate report.**
**Analytical Results by 4/19/2017.**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

# Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

| Name of Company | OGRID Number | Contact |
|---|---|---|
| EOG Y Resources, Inc. | 25575 | Robert Asher |
| Address | | Telephone No. |
| 104 S. 4th Street | | 575-748-1471 |
| Facility Name | | Facility Type |
| Cola ADO State Com #2 | | Battery |

| Surface Owner | Mineral Owner | API No. |
|---|---|---|
| State | State | 30-005-21064 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| E | 31 | 8S | 33E | 1880 | North | 760 | West | Chaves |

Latitude 32.57850 Longitude 103.61315

## NATURE OF RELEASE

| Type of Release | Volume of Release | Volume Recovered |
|---|---|---|
| Oil & Produced Water | 5 B/O & 10 B/PW | 3 B/O & 7 B/PW |
| Source of Release | Date and Hour of Occurrence | Date and Hour of Discovery |
| Flow line valve | 1/18/2017; PM | 1/18/2017; PM |
| Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required | If YES, To Whom? N/A | |
| By Whom? N/A | Date and Hour N/A | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
By Olivia Yu at 1:51 pm, Feb 15, 2017

Describe Cause of Problem and Remedial Action Taken.*
Flow line valve failed, causing the release. Vacuum truck(s) and roustabout crews were called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 15'X 30'. The well and valves were closed. Vacuum truck recovered remaining oil and produced water. The impacted soils were excavated and hauled to an NMOCD approved facility. Vertical and horizontal delineation samples will be collected and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (approximately 220', per ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| Signature: | OIL CONSERVATION DIVISION | |
|---|---|---|
| Printed Name: Robert Asher | Approved by Environmental Specialist: | |
| Title: Environmental Supervisor | Approval Date: 2/15/2017 | Expiration Date: |
| E-mail Address: Robert_Asher@eogresources.com | Conditions of Approval: see attached directive | Attached ☑ |
| Date: February 3, 2017 Phone: 575-748-4217 | | |

* Attach Additional Sheets If Necessary

1RP-4607 nOY1704650251 pOY1704650453

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _2/3/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-__4607_ has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _3/15/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; $C_6$ thru $C_{36}$), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; $C_6$ thru $C_{36}$), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505

CONDITIONS

Action 50470

## CONDITIONS

| | |
|---|---|
| Operator:<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | OGRID:<br>7377 |
| | Action Number:<br>50470 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| bbillings | None | 9/21/2021 |